

U.S. Patent Application Serial No. 10/043,361
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AMENDMENTS TO THE CLAIMS

This Listing of Claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claims 1-30. (Canceled).

31. (Previously Presented) A system for managing data associated with mobile assets, comprising:

a management computer for storing asset control data for a plurality of mobile assets in a relational database format;

an asset monitor, for each of a plurality of mobile assets, for monitoring a respective mobile asset to collect asset monitored data, for wirelessly receiving asset control data originated at the management computer, and for controlling operation of the mobile asset in view of the asset monitored data and the received asset control data; and

a wireless communications infrastructure interconnecting the management computer to each of the mobile assets, the infrastructure including a plurality of local monitor nodes each storing asset control data in a relational database format for at least a portion of the plurality of mobile assets that is at least a partial replica of the asset control data stored by the management computer.

32. (Previously Presented) The system of claim 31 wherein each of the local monitor nodes includes a processor operable to be responsive to received asset control data originated at the management computer, to make decisions concerning operation of the mobile asset in view

U.S. Patent Application Serial No. 10/043,361

Applicant: Ehrman, et al.

of the received asset control data and wirelessly communicate instructions for mobile asset operation to the mobile asset.

33. (Previously Presented) The system of claim 31 wherein the management computer operates to determine to which ones of the plurality of local monitor nodes does the asset control data for a certain one of the plurality of mobile assets need to be communicated.

34. (Previously Presented) The system of claim 31 wherein the asset monitor is further operable to parse a wirelessly received communication of asset control data to identify and store only that asset control data which is pertinent to the mobile asset.

35. (Previously Presented) The system of claim 31 wherein the asset data stored by the management computer in a relational database format comprises data relating to controlling access to the mobile assets and authorization for operators to utilize each of the plurality of mobile assets.

36. (Previously Presented) The system of claim 35 wherein the plurality of local monitor nodes each store at least a portion of the access control data and wirelessly communicate that asset control data to asset monitors.

37. (Previously Presented) The system of claim 36 wherein the asset monitor is further operable to parse a wirelessly received communication of access control data to identify and store only that access control data which is pertinent to the mobile asset.

U.S. Patent Application Serial No. 10/043,361
Applicant: Ehrman, et al.

38. (Previously Presented) The system of claim 31, wherein the asset monitor prevents access to the mobile asset when asset control data does not correlate to asset monitored data.

39. (Previously Presented) The system of claim 38, wherein the access control data identifies operators approved to access the mobile asset.

40. (Previously Presented) The system of claim 38, wherein the access control data identifies one or more locations at which the mobile asset is permitted to operate.

41. (Previously Presented) The system of claim 38, wherein the access control data identifies a date by which maintenance must be performed on the mobile asset.

42. (Previously Presented) The system of claim 38, wherein access control data is deleted when a predetermined date is reached.

43. (Previously Presented) The system of claim 38, wherein the access control data includes a schedule of dates and times during which a first user may operate the mobile asset.

44. (Previously Presented) A method for monitoring and controlling a mobile asset, the method comprising the steps of:

U.S. Patent Application Serial No. 10/043,361
Applicant: Ehrman, et al.

receiving asset control data at a mobile asset, the asset control data having been originated from a management computer;

monitoring the mobile asset to generate asset monitored data;

comparing the asset monitored data to the asset control data to determine whether the mobile asset should be allowed to operate; and

preventing operation of the mobile asset if it is determined that the mobile asset should not be allowed to operate.

45. (Previously Presented) The method of claim 44, further comprising the steps of:
parsing the received asset control data to determine whether the asset control data is applicable to the mobile asset; and
storing the received asset control data if it is determined that the asset control data is applicable to the mobile asset.
46. (Previously Presented) The method of claim 45, further comprising the step of:
deleting asset control data if it is no of date.
47. (Previously Presented) The method of claim 44, wherein the step of monitoring the mobile asset to generate asset monitored data comprises receiving user identification data regarding a potential user, and the step of comparing the asset monitored data to the asset control data to determine whether the mobile asset should be allowed to operate comprises comparing the user identification data to a schedule to determine whether the user identification data identifies a user that is scheduled to use the mobile asset at a current time.

U.S. Patent Application Serial No. 10/043,361

Applicant: Ehrman, et al.

48. (Previously Presented) The method of claim 44, wherein the step of monitoring the mobile asset to generate asset monitored data comprises receiving user identification data regarding a potential user, and the step of comparing the asset monitored data to the asset control data to determine whether the mobile asset should be allowed to operate comprises comparing the user identification data to a schedule to determine whether the user identification data identifies a user that is scheduled to use the mobile asset at a current location.

49. (Previously Presented) The method of claim 44, wherein the step of monitoring the mobile asset to generate asset monitored data comprises monitoring sensors on the mobile asset to determine maintenance characteristics of the mobile asset, and the step of comparing the asset monitored data to the asset control data to determine whether the mobile asset should be allowed to operate comprises comparing the asset monitored data to data representative of acceptable maintenance characteristics.

50. (Previously Presented) The method of claim 49, wherein the step of preventing operation of the mobile asset if it is determined that the mobile asset should not be allowed to operate comprises the step of:

limiting the functionality of the mobile asset.

51. (new) The system of claim 31, wherein the mobile asset monitor controls non-immobilized operation of the mobile asset.

U.S. Patent Application Serial No. 10/043,361

Applicant: Ehrman, et al.

52. (new) The system of claim 51, wherein the mobile asset monitor controls non-immobilized operation of the mobile asset by placing the mobile asset in creeper mode.

53. (new) The system of claim 51, wherein the mobile asset monitor controls non-immobilized operation of the mobile asset by turning on a signal light.

54. (new) The system of claim 51, wherein the mobile asset monitor controls non-immobilized operation of the mobile asset by turning on a siren.

55. (new) The system of claim 51, wherein the mobile asset monitor controls non-immobilized operation of the mobile asset by deactivating one or more features of the mobile asset.

56. (new) The system of claim 51, wherein the mobile asset monitor controls non-immobilized operation of the mobile asset by disabling a lift associated with the mobile asset.

57. (new) The system of claim 51, wherein the mobile asset monitor controls non-immobilized operation of the mobile asset by limiting access to a subset of users approved to operate the mobile asset.